RESPIRATORY SYSTEM

Specific Expectation

E1.2 analyse the impact of various lifestyle choices on human health and body systems

E2.1 use appropriate terminology related to animal anatomy, including, but not limited to: *systolic contraction, diastolic pressure, diffusion gradient, inhalation, exhalation, coronary, cardiac, ulcer, asthma,* and *constipation* [C]

E3.2 describe the anatomy and physiology of the respiratory system (including the nasal cavity, trachea, larynx, bronchi, bronchioles, alveoli, and oxygenated and deoxygenated blood) and the mechanisms of gas exchange and respiration

E3.4 explain some of the mechanisms of interaction between a mammal’s different body systems (e.g., the exchange of oxygen and carbon dioxide between the respiratory and circulatory systems)

**Learning Goals, students will be able to...**

* To list the different structures in the respiratory system and define their specialized function.
* To contrast and compare aerobic and anaerobic cellular respiration.
* To discuss various respiratory disorders including structures involved, functions and implications of a dysfunction of the structure on the overall health of an individual.

**Glossary**

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| TERM | DEFINITION | STRUCTURES |
| Respiration |  | trachea |
| Endotherm |  | epiglottis |
| inspiration |  | larynx |
| expiration |  | bronchus/ bronchi |
| breathing volume |  | bronchiole |
| spirometer |  | alveolus/alveoli |
| lung capacity |  | diaphragm |
| breathing rates |  |  |

**ASSESSMENT EVIDENCE**/EVALUATIONS:

* LAB
* JIGSAW (Expert group)
* QUIZ
* UNIT TEST

LEARNING PLAN:

* PowerPoint

ACTIVITIES:

Pre-assessment quiz- peer- assessed

1. HOOK: you tube video/ song
2. LAB: Build a lung Model
3. LAB: Lung Volume and the effect of exercise
4. LAB: listen to lung sounds (online site)
5. LAB: Spread of Disease (Virus)
6. smartboard activity: label Structures
7. Consolidation: